2D barcode scanner
User Manual

V1.1

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Introduction

This User's Guide provides demonstration, installation, and programming instructions for the MJ-6706 engine. Engine is factory programmed for the most common terminal and communications settings. If you need to change these settings, programming is accomplished by scanning the bar codes in this guide. An asterisk (*) next to an option indicates the default setting.

If you aren't sure what programming options are in your engine, or you've changed some options and want to restore the engine to factory default settings, first scan the Remove Custom Defaults bar code, then scan Activate Defaults. This resets the engine to the factory default settings.

Factory Default Settings

Interface Settings

RS232 Serial Port

The RS232 Interface bar code is used when connecting to the serial port of a PC or terminal. The following RS232 Interface bar code also programs a carriage return (CR) and a line feed (LF) suffix, baud rate, and

data format as indicated below. It also changes the trigger mode to manual.

RS232 Interface

USB Interface Settings

USB PC or Macintosh Keyboard

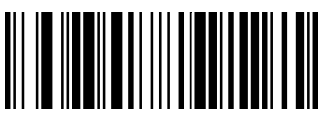
Scan one of the following codes to program the engine for USB PC Keyboard or USB Macintosh Keyboard. Scanning these codes also adds a CR and LF.

USB Keyboard PC

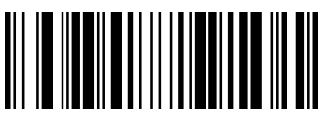
USB Keyboard MAC

USB IBM SurePos

Scan one of the following codes to program the engine for an IBM SurePos (USB handheld scanner) or IBM SurePos (USB tabletop scanner) interface.Note:After scanning one of these codes, you must power cycle the cash register.



USB Handheld Scanner



USB Tabletop Scanner

Scan the following code to program the engine for USB HID bar code scanners.

USB HID POS

USB Serial

USB Serial

Scan the following code to program the engine to emulate a regular RS232

RS232 Settings

RS232 Baud Rate

Baud Rate sends the data from the engine to the terminal at the specified rate. The host terminal must be set for the same baud rate as the engine. Default = 9600.

300bps

600bps

1200bps

2400bps

4800bps

9600bps

19200bps

38400bps

57600bps

***115200bps**

RS232WordLength: DataBits, StopBits, andParity

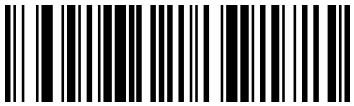
Data Bits sets the word length at 7 or 8 bits of data per character. If an application requires only ASCII Hex characters 0 through 7F decimal

(text, digits, and punctuation), select 7 data bits. For applications that require use of the full ASCII set, select 8 data bits per character. Default = 8.Stop Bits sets the stop bits at 1 or 2. Default = 1.Parity provides a means of checking character bit patterns for validity. Default = None.

7 Data, 1 Stop, Parity None

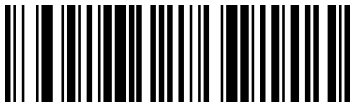
7 Data, 2 Stop Parity None

*** 8 Data, 1 Stop, Parity None**



7 Data, 1 Stop, Parity Even

7 Data, 2 Stop, Parity Even



8 Data, 1 Stop, Parity Even

7 Data, 1 Stop, Parity Odd

7 Data, 2 Stop, Parity Odd

8 Data, 1 Stop, Parity Odd

Keyboard Settings

Keyboard Country Layout

Scan the appropriate country code below to program the keyboard layout for your country or language. As a general rule, the following characters are supported, but need special care for countries other than the United States:@ | $ # { } \[ ] = / ¡® \\ \< > ~

*** United States**

Belgium

Finland

France

Germany

Italy

Switzerland (German)

United Kingdom

Denmark

Norway

Spain

Dutch

Latin America

Brazil

Greek

Uzbek (Cyrillic)

Keyboard Style

This programs keyboard styles, such as Caps Lock and Shift Lock. If you have used Keyboard Conversion settings, they will override any of the following Keyboard Style settings. Default = Regular. Regular is used when you normally have the Caps Lock key off.

*** Regular**

Caps Lock

Shift Lock

Automatic Caps Lock is used if you change the Caps Lock key on and off. The software tracks and reflects if you have Caps Lock on or off. This selection can only be used with systems that have an LED that notes the Caps Lock status (AT keyboards).

Automatic Caps Lock

Autocaps via NumLockbar code should be scanned in countries (e.g., Germany, France) where the Caps Lock key cannot be used to toggle Caps Lock. The NumLock option works similarly to the regular Autocaps, but uses the NumLock key to retrieve the current state of the Caps Lock.

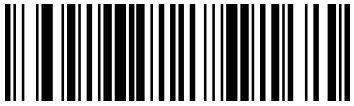
Autocaps via NumLock

Keyboard Conversion

Alphabetic keyboard characters can be forced to be all upper case or all lowercase. So if you have the following bar code: ab123dE, you can

make the output AB123DE by scanning Convert All Characters to Upper Case, or to abc123de by scanning Convert All Characters to Lower Case. Default = Keyboard Conversion Off.

*** Keyboard Conversion Off**



Convert All Characters to Upper Case

Convert All Characters to Lower Case

Input/Output Settings

Power Up Beeper

The engine can be programmed to beep when it's powered up. If you are using a cordless system, the base can also be programmed to beep when it is powered up. Scan the Off bar code(s) if you don't want a power up beep. Default = Power Up Beeper On - Scanner.

*** Power Up Beeper On**

Power Up Beeper Off

Beep on BEL Character

You may wish to force the engine to beep upon a command sent from the host. If you scan the Beep on BEL on bar code below, the engine will beep every time a BEL character is received from the host. Default = Beep on BEL Off.

beep on BEL On

***Beep on BEL Off**

Trigger Click

To hear an audible click every time the trigger is pressed, scan the Trigger Click On bar code below. Scan the Trigger Click Off code if you don’t wish to hear the click. Default =Trigger Click Off.。

Trigger Click On

***Trigger Click Off**

Beeper-Good Read

The beeper may be programmed on or off in response to a good read. Turning this option Off, only turns off the beeper response to a good read indication. All error and programming beeps are still audible. Default = Beeper - Good Read On.

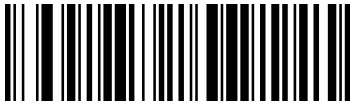
Beeper - Good Read Off

*** Beeper - Good Read On**

Beeper Volume - Good Read

Off

Low

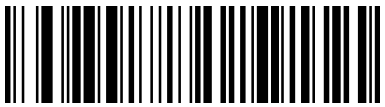


*** High**

Beeper Pitch - Good Read

Low

*** Medium**



High

Beeper Duration- Good Read

The beeper duration codes modify the length of the beep the engine emits on a good read. Default = Normal.

***Normal Beep(50ms)**

Short Beep(20ms)

LED Good Read

The LED indicator can be programmed On or Off in response to a good read.

Default = On.

*** LED - Good Read On**

LED - Good Read Off

Scanner Time-Out

Scanner Time-Out powers down the engine after the unit has been idle for the specified time. To prevent the engine from powering down, set this time-out to 0. Scan Scanner Time-Out, then set the time-out by scanning digits (from 0 - 999,999ms) from the inside back cover, then scanning Save. Default = 120000ms.

Scanner Time-Out

Good Read Delay

This sets the minimum amount of time before the engine can read another bar code. Default = 0 ms (No Delay).

*** No Delay**

If you want to set your own length for the good read delay, scan the bar code below, then set the delay (from 0-30,000 milliseconds) by scanning digits from the inside back cover, then scanning Save.

User-Specified Good Read Delay

Read Mode

Manual Trigger Modes

When in manual trigger mode, the scanner scans until a bar code is read, or until the trigger is released.

*** Manual Trigger**

Presentation Mode

Presentation Mode uses ambient light to detect bar codes. The LEDs are dimmed until a bar code is presented to the scanner, then the LEDs become brighter to read the code. If the light level in the room is not high enough, Presentation Mode may not work properly.

Presentation Mode

When a scanner is in presentation mode, the LEDs dim a few seconds after a bar code is decoded. If you wish to dim the LEDs immediately after a bar code is decoded, scan the LEDs Off bar code, below. Default = LEDs On.

***LED On**

LED Off

Presentation Sensitivity

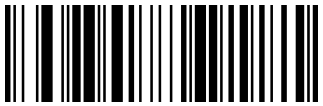
Presentation Sensitivity is a numeric range that increases or decreases the scanner's reaction time to bar code presentation. To set

the sensitivity, scan the Sensitivity bar code, then scan the degree of sensitivity (from 0-20) from the inside back cover, and Save. 0 is the most sensitive setting, and 20 is the least sensitive. Default = 1.

Sensitivity

Streaming Presentation

When in Streaming Presentation mode, scan illumination remains on all the time to continuously search for bar codes.



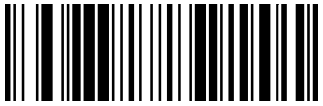
Streaming Presentation Mode

Hands Free Time-Out

Presentation Mode is referred to as a “hands free¡” mode. If the engine is triggered when using a hands free mode, the engine changes to manual trigger mode. You can set the time the engine should remain in manual trigger mode by setting the Hands Free Time-Out. Once the time-out value is reached, (if there have been no further trigger pulls) the engine reverts to the original hands free mode.

Scan the Hands Free Time-Out bar code, then scan the time-out duration

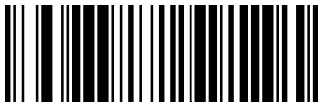
(from 0-300,000 milliseconds) from the inside back cover, and Save. Default = 5,000 ms.



Hands Free Time-Out

Read Time-Out

Use this selection to set a time-out (in milliseconds) of the scanner¡¯s trigger when using serial commands to trigger the scanner. Once the scanner has timed out, you can activate the scanner either by pressing the trigger or using a serial trigger command. After scanning the Read Time-Out bar code, set the time-out duration (from 0-300,000 milliseconds) by scanning digits on the Programming Chart inside the back cover, then scanning Save. Default = 30,000 ms.



Read Time-Out

Reread Delay

This sets the time period before the engine can read the same bar code a second time. Setting reread delay protects against accidental rereads of the same bar code. Longer delays are effective in minimizing accidental

rereads. Use shorter delays in applications where repetitive bar code scanning is required. Reread Delay only works when in Presentation Mode.

You can set your own length for the reread delay, scan the bar code below, then setting the delay (from 0-30,000 milliseconds) by scanning digits from the Save.

User-Specified Reread Delay

Illumination Lights

If you want the illumination lights on while reading a bar code, scan the Lights On bar code, below. However, if you want to turn just the lights off, scan the bar code. Default = Lights On.

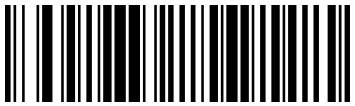
***On**

Off

Aimer Mode

This feature allows you to turn the aimer on and off. When the

Interlaced bar code is scanned, the aimer is interlaced with the illumination LEDs. Default = Interlaced.



Off

***On**

Multiple Symbols Read Mode

When this programming selection is turned On, it allows you to read multiple symbols with a single pull of the trigger. If you press and hold the trigger, aiming at a series of symbols, it reads unique symbols once, beeping (if turned on) for each read. The engine attempts to find and decode new symbols as long as the trigger is pulled. When this programming selection is turned Off, the engine will only read the symbol closest to the aiming beam. Default = Off.

On

***Off**

Bar Reverse Settings

Note: After scanning **Bar** Reverse Only, programming barcodes cannot be read. You must scan **Bar** Reverse Off or **Bar** Reverse and Standard Bar Codes in order to read programming bar codes.

Bar Reverse Only

Bar Reverse and Standard BarCodes

*** Bar Reverse Off (Standard BarCodes)**

Prefix/Suffix

When a bar code is scanned, additional information is sent to the host

computer along with the bar code data. This group of bar code data and additional, user-defined data is called a message string. The selections in this section are used to build the user-defined data into the message string. Prefix and Suffix characters are data characters that can be sent before and after scanned data. You can specify if they should be sent with all symbologies, or only with specific symbologies.

To Add a Prefix or Suffix:

Step 1.Scan the Add Prefix or Add Suffix symbol.

Step 2.Determine the 2 digit Hex value from the Symbology Chart for the symbology to which you want to apply the prefix or suffix. For example, for Code 128, Code ID Hex ID is 6A.

Step 3.Scan the 2 hex digits from the Programming Chart inside the back cover of this manual or scan 9, 9 for all symbologies.

Step 4.Determine the hex value from the ASCII Conversion Chart, for the prefix or suffix you wish to enter.

Step 5.Scan the 2 digit hex value from the Programming Chart inside the back cover of this manual.

Step 6.Repeat Steps 4 and 5 for every prefix or suffix character.

Step 7.Scan Save to exit and save, or scan Discard to exit without saving.

Repeat Steps 1-6 to add a prefix or suffix for another symbology.

Example: Add a Suffix to a specific symbology.

To send a CR (carriage return)Suffix for CODE128 only:

Step 1.Scan Add Suffix.

Step 2.Determine the 2 digit hex value from the Symbology Chart (included in the Symbology Chart) for CODE128.

Step 3.Scan 6, A from the Programming Chart inside the back cover of this manual.

Step 4.Determine the hex value from the ASCII Conversion Chart, for the CR (carriage return).

Step 5.Scan 0, D from the Programming Chart inside the back cover of this manual.

Step 6.Scan Save, or scan Discard to exit without saving.

To Clear One or All Prefixes or Suffixes

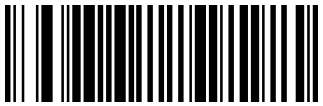
You can clear a single prefix or suffix, or clear all prefixes/suffixes for a symbology. If you have been entering prefixes and suffixes for single symbologies, you can use Clear One Prefix (Suffix) to delete a specific character from a symbology. When you Clear All Prefixes (Suffixes), all the prefixes or suffixes for a symbology are deleted.

Step 1.Scan the Clear One Prefix or Clear One Suffix symbol.

Step 2.Determine the 2 digit Hex value from the Symbology Chart for the symbology from which you want to clear the prefix or suffix.

Step 3.Scan the 2 digit hex value from the Programming Chart inside the back cover of this manual or scan 9, 9 for all symbologies. Your change is automatically saved.

Default prefix = None. Default suffix = None.



Add CR Suffix On All Symbologies

Add CR&LF Suffix On All Symbologies

Add TAB Suffix On All Symbologies

Prefix Settings

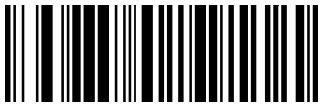
Prefix Default Settings

Add Prefix

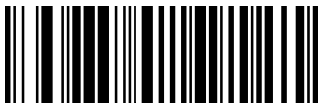
Clear One Prefix

Clear All Prefixes

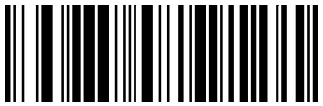
Suffix Settings



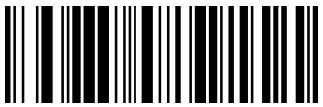
Suffix Default Settings



Add Suffix



Clear One Suffix



Clear All Suffixes

Transmit Delays

Inter-character Delay

Some terminals drop information (characters) if data comes through too quickly. Inter-character, barcode message delays slow the transmission of data, increasing data integrity.

An inter-character delay of up to 5000 milliseconds (in 5ms increments) may be placed between the transmission of each character of scanned data. Scan the Inter-character Delay bar code below, then scan the number of 5ms delays, and the Save bar code using the Programming Chart inside the back cover of this manual.

Inter-character Delay

To remove this delay, scan the Inter-character Delay bar code, then set the number of delays to 0. Scan the Save bar code using the Programming Chart inside the back cover of this manual.

Barcode message Delay

A barcode message delay of up to 5000 milliseconds (in 5ms increments) may be placed between each scan transmission. Scan the

barcode message Delay bar code below, then scan the number of 5ms delays, and the Save bar code using the Programming Chart inside the back cover of this manual.

Barcode message Delay

To remove this delay, scan the barcode message Delay bar code, then set the number of delays to 0. Scan the Save bar code using the Programming Chart inside the back cover of this manual.

Symbologies

If you want to decode all the symbologies allowable for your engine, scan the All Symbologies On code. If on the other hand, you want to decode only a particular symbology, scan All Symbologies Off followed by the on symbol for that particular symbology.

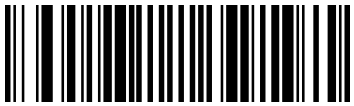
All Symbologies On

All Symbologies Off

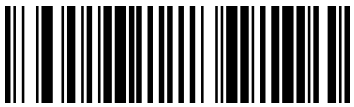
CODABAR

Default Settings

***On**



Off



Start/Stop Characters On

***Start/Stop Characters Off**

Maximum Message Length（Default 60）

Minimum Message Length（Default 4）

CODE39

Default Settings

***On**

Off

Start/Stop Characters On

*** Start/Stop Characters Off**

***No Check Character**

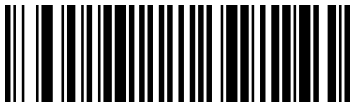
Validate, but Don’t Transmit

Validate and Transmit

Maximum Message Length（Default 48）

Minimum Message Length（Default 0）

Full ASCII On



*** Full ASCII Off**

INTERVELAVED 2 0F 5

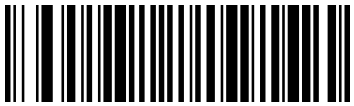
Default Settings

***On**

Off

*** No Check Digit**

Validate, but Don’t Transmit



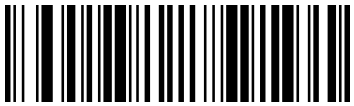
Validate and Transmit

Maximum Message Length（Default 80）

Minimum Message Length（Default 4）

NEC 2 OF 5

Default Settings

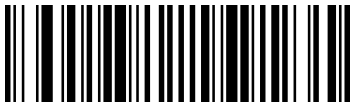


***On**

Off

*** No Check Digit**

Validate, but Don’t Transmit



Validate and Transmit

Maximum Message Length（Default 80）

Minimum Message Length（Default 4）

CODE 93

Default Settings

***On**

Off

Maximum Message Length（Default 80）

Minimum Message Length（Default 4）

STRAIGHT 2 OF 5

STRAIGHT 2 OF 5 INDUSTRIAL

Default Settings

On

***Off**

Maximum Message Length（Default 80）

Minimum Message Length（Default 0）

STRAIGHT 2 OF 5 IATA

Default Settings

On

***Off**

Maximum Message Length（Default 48）

Minimum Message Length（Default 4）

MATRIX 2 0F 5

Default Settings

On

***Off**

Maximum Message Length（Default 80）

Minimum Message Length（Default 4）

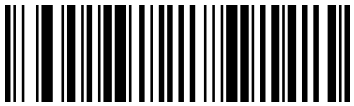
CODE 11

Default Settings

On

***Off**

One Check Digit



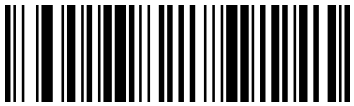
*** Two Check Digits**

Maximum Message Length（Default 80）

Minimum Message Length（Default 4）

CODE128

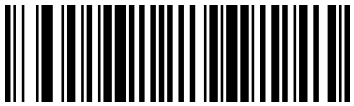
Default Settings



***On**

Off

ISBT On



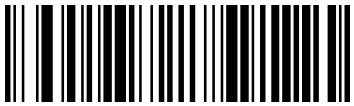
***ISBT Off**

Maximum Message Length（Default 48）

Minimum Message Length（Default 1）

GS1-128

Default Settings



***On**

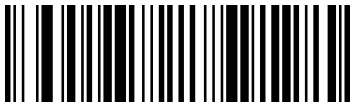
Off

Maximum Message Length（Default 80）

Minimum Message Length（Default 1）

TELEPEN

Default Settings



On

***Off**

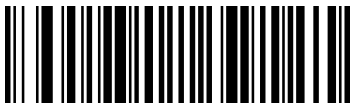
Maximum Message Length（Default 60）

Minimum Message Length（Default 1）

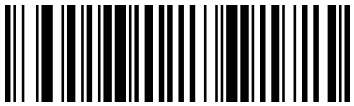
UPC-A

Default Settings

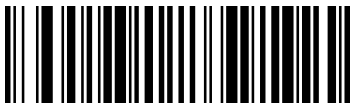
***On**



Off



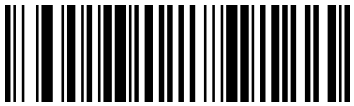
***Check Digit On**



Check Digit Off

*** UPC-A Number System On**

UPC-A Number System Off



2 Digit Addenda On

*** 2 Digit Addenda Off**

5 Digit Addenda On

*** 5 Digit Addenda Off**

When Required On is scanned, the engine will only read UPC-A bar codes that have addenda. You must turn on a 2 or 5 digit addenda.

UPC-A Addenda Required On

*** UPC-A Addenda Required Off**

When this feature is on, there is a space between the data from the bar code and the data from the addenda. When turned off, there is no space.

*** Addenda Separator On**

Addenda Separator Off

UPC-E0

Default Settings

Most U.P.C. bar codes lead with the 0 number system. To read these codes, use the UPC-E0 On selection. If you need to read codes that lead with the 1 number system, use UPC-E1.

***On**

Off

UPC-E Expand expands the UPC-E code to the 12 digit, UPC-A format.

UPC-E0 Expand On

*** UPC-E0 Expand Off**

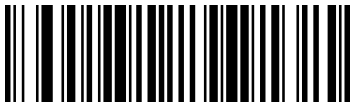
Addenda Required On

***Addenda Required Off**

*** Addenda Separator On**

Addenda Separator Off

*** UPC-E0 Check Digit On**



UPC-E0 Check Digit Off

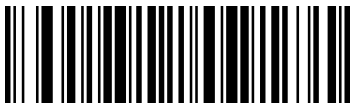
*** UPC-E0 Number System On**

UPC-E0 Number System Off

2 Digit Addenda On

*** 2 Digit Addenda Off**

5 Digit Addenda On



*** 5 Digit Addenda Off**

UPC-E1 Most UPC bar codes lead with the 0 number system. For these codes, use UPC-E0. If you need to read codes that lead with the 1 number system, use the UPC-E1 On selection. Default = Off.

UPC-E1 On

*** UPC-E1 Off**

EAN/JAN-13

Default Settings

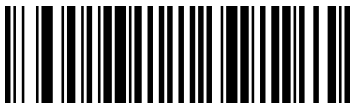
***On**

Off

*** Check Digit On**

Check Digit Off

2 Digit Addenda On



*** 2 Digit Addenda Off**

5 Digit Addenda On

*** 5 Digit Addenda Off**

Addenda Required

*** Addenda Not Required**

*** Addenda Separator On**

Addenda Separator Off

ISBN Translate On

*** ISBN Translate Off**

EAN/JAN-8

Default Settings

***On**

Off

*** Check Digit On**

*** Check Digit Off**

2 Digit Addenda On

***2 Digit Addenda Off**

5 Digit Addenda On

***5 Digit Addenda Off**

Addenda Required On

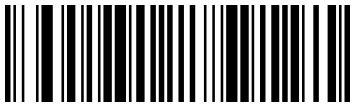
*** Addenda Required Off**

*** Addenda Separator On**

Addenda Separator Off

MSI

Default Settings



On

***Off**

*** Validate Type 10, but Don’t Transmit**

Validate Type 10 and Transmit

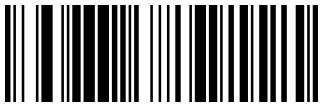
Validate 2 Type 10 Characters, but Don’t Transmit

Validate 2 Type 10 Characters and Transmit

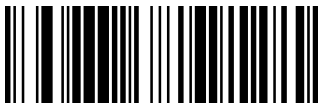
Validate Type 10 then Type 11 Character, but Don’t Transmit

Validate Type 10 then Type 11 Character and Transmit

Disable MSI Check Characters



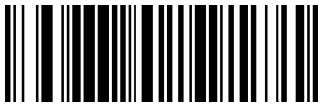
Maximum Message Length（Default 48）



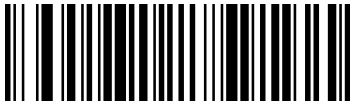
Minimum Message Length（Default 4）

GS1 DATABAR

GS1 DATABAR OMNIDIRECTIONAL



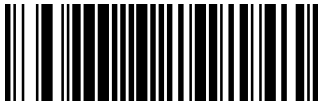
Default Settings



***On**

Off

GS1 DATABAR limited



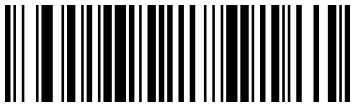
Default Settings

***On**

Off

GS1 DATABAR EXPANDED

Default Settings



***On**

Off

Maximum Message Length（Default 74）

Minimum Message Length（Default 4）

TRIOPTIC CODE

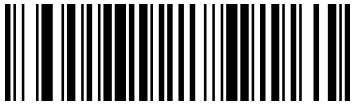
Note: Trioptic Code must be off If you are going to scan CODE32 code.

On

***Off**

CODEBLOCK A

Default Settings



On

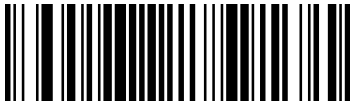
***Off**

Maximum Message Length（Default 600）

Minimum Message Length（Default 1）

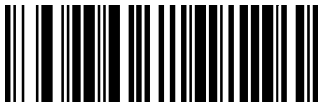
CODEBLOCK F

Default Settings

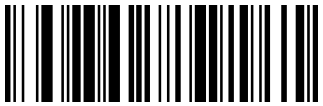


On

***Off**

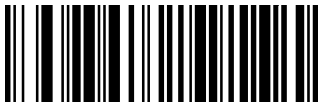


Maximum Message Length（Default 2048）

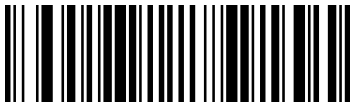


Minimum Message Length（Default 1）

PDF417

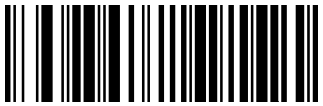


Default Settings



***On**

Off



Maximum Message Length（Default 2710）

Minimum Message Length（Default 1）

MICRO PDF417

Default Settings

On

***Off**

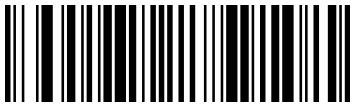
Maximum Message Length（Default 366）

Minimum Message Length（Default 1）

GS1 COMPOSITE

GS1 COMPOSITE CODES

Default Settings



On

***Off**

On GS1 UPC/EAN

***Off GS1 UPC/EAN**

Maximum Message Length（Default 2435）

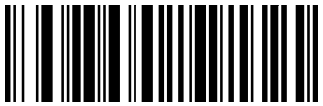
Minimum Message Length（Default 1）

TCIF LINKED CODE 39(TLC39)

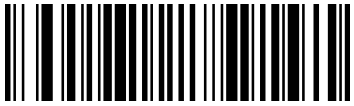
ON

***OFF**

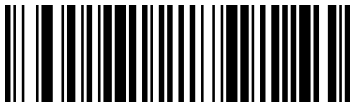
QR CODE



Default Settings



***On**



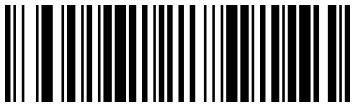
Off

Maximum Message Length（Default 7089）

Minimum Message Length（Default 1）

MAXICODE

Default Settings



On

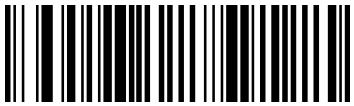
***Off**

Maximum Message Length（Default 150）

Minimum Message Length（Default 1）

DATA MATIX CODE

Default Settings



***On**

Off

Maximum Message Length（Default 3116）

Minimum Message Length（Default 1）

AZTEC CODE

Default Settings

***On**

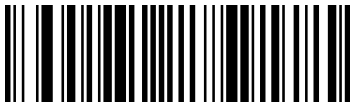
Off

Maximum Message Length（Default 3832）

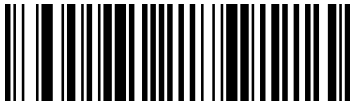
Minimum Message Length（Default 1）

HAN XIN CODE

Default Settings



On



***Off**

Maximum Message Length（Default 7833）

Minimum Message Length（Default 1）

POSTAL CODE

China Post(Hong Kong 2 0f 5)

Default All China Post Settings

On

***Off**

Maximum Message Length（Default 80）

Minimum Message Length（Default 2）

Korea Post

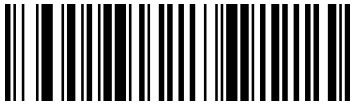
Default All Korea Post Settings

On

***Off**

Maximum Message Length（Default　48）

Minimum Message Length（Default　2）



Transmit Check Digit

*** Don’t Transmit Check Digit**

Reference Charts

Programming Number Chart

0

1

1

3

4

5

6

7

8

9

A

B

C

D

E

F

Save

Discard

ASCII Conversion Chart

DEC	HEX	Character (Code)
0	0	NULL
1	1	START OF HEADING (SOH)

2	2	START OF TEXT (STX)
3	3	END OF TEXT (ETX)
4	4	END OF TRANSMISSION (EOT)
5	5	END OF QUERY (ENQ)
6	6	ACKNOWLEDGE (ACK)
7	7	BEEP (BEL)
8	8	BACKSPACE (BS)
9	9	HORIZONTAL TAB (HT)
10	A	LINE FEED (LF)
11	B	VERTICAL TAB (VT)
12	C	FF (FORM FEED)
13	D	CR (CARRIAGE RETURN)
14	E	SO (SHIFT OUT)
15	F	SI (SHIFT IN)
16	10	DATA LINK ESCAPE (DLE)
17	11	DEVICE CONTROL 1 (DC1)
18	12	DEVICE CONTROL 2 (DC2)
19	13	DEVICE CONTROL 3 (DC3)
20	14	DEVICE CONTROL 4 (DC4)
21	15	NEGATIVE ACKNOWLEDGE-MENT (NAK)
22	16	SYNCHRONIZE (SYN)
23	17	END OF TRANSMISSION BLOCK (ETB)
24	18	CANCEL (CAN)
25	19	END OF MEDIUM (EM)
26	1A	SUBSTITUTE (SUB)
27	1B	ESCAPE (ESC)
28	1C	FILE SEPARATOR (FS) RIGHT ARROW
29	1D	GROUP SEPARATOR (GS) LEFT ARROW
30	1E	RECORD SEPARATOR (RS) UP ARROW
31	1F	UNIT SEPARATOR (US) DOWN ARROW
32	20	<SPACE>
33	21	!
34	22	"
35	23	#
36	24	$
37	25	%
38	26	&
39	27	'
40	28	(
41	29	)

42	2A	*
43	2B	+
44	2C	,
45	2D	-
46	2E	.
47	2F	/
48	30	0
49	31	1
50	32	2
51	33	3
52	34	4
53	35	5
54	36	6
55	37	7
56	38	8
57	39	9
58	3A	:
59	3B	;
60	3C	<
61	3D	=
62	3E	>
63	3F	?
64	40	@
65	41	A
66	42	B
67	43	C
68	44	D
69	45	E
70	46	F
71	47	G
72	48	H
73	49	I
74	4A	J
75	4B	K
76	4C	L
77	4D	M
78	4E	N
79	4F	O
80	50	P
81	51	Q
82	52	R
83	53	S
84	54	T

85	55	U
86	56	V
87	57	W
88	58	X
89	59	Y
90	5A	Z
91	5B	[
92	5C	\
93	5D	]
94	5E	^
95	5F	_
96	60	`
97	61	a
98	62	b
99	63	c
100	64	d
101	65	e
102	66	f
103	67	g
104	68	h
105	69	i
106	6A	j
107	6B	k
108	6C	l
109	6D	m
110	6E	n
111	6F	o
112	70	p
113	71	q
114	72	r
115	73	s
116	74	t
117	75	u
118	76	v
119	77	w
120	78	x
121	79	y
122	7A	z
123	7B	{
124	7C	|
125	7D	}
126	7E	~
127	7F	<DEL>

128		

Symbology Chart

Symbology	AIM ID	Possible AIM ID Modifiers	CODE ID	CODE ID hex
All Symbologies				99
Code128	]Cm	0,1,2,4	j	6A
GS1-128	]C1			49
EAN-13	]E0		d	64
EAN-13 with Add-On	]E3		d	64
EAN-13 with Extended Coupon Code	]E3		d	64
EAN-8	]E4		D	44
EAN-8 with Add-On	]E3		D	44
Matrix 2 of 5	]X0		m	6D
Code49	]Tm	0,1,2,4	I	6C
Code 32	]X0			<3C
Code 39	]Am	0,1,3,4,5,7	b	62
Britsh Post	]X0		B	42
Canadian Post	]X0		C	43
China Post	]X0		Q	51
Han Xin	]X0		H	48
Codebar	]Fm	0-1	a	61
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